SCHWAIGER®

2in1

REPEATER + ROUTER

WiFi

WPS

N 300 2.4 GHz

USER MANUAL

RW 100

Wireless Mini Router/Repeater

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OPEN SOURCE CODE

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INTRODUCTION

The Wireless Router/ Repeater RW 100 from Schwaiger is a combined wired/ wireless network connection device designed specifically for small business, office, and home office networking requirements. It complies with the IEEE 802.11n standard. It adopts MIMO as well as SST technologies. It also works well with other 11b/g and 11n protocol wireless products. Create instant WiFi hotspots at any location where you have Internet connection.

Main Features

- Complies with IEEE 802.11b/g/n standards (up to 300 Mbps)
- Supports Router, Client, Bridge, Repeater, AP mode
- QoS function assures the quality of VoIP and multimedia streaming
- Compact and portable, powerful wireless signal as well
- Travel size design, ideal for home or travel use
- Supports WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions
- Power: 100 - 240 V, 50/60 Hz, 50 mA

Package Contents

Before you starting to use this router, please check if there's anything missing in the package, and contact your dealer of purchase to claim for missing items:

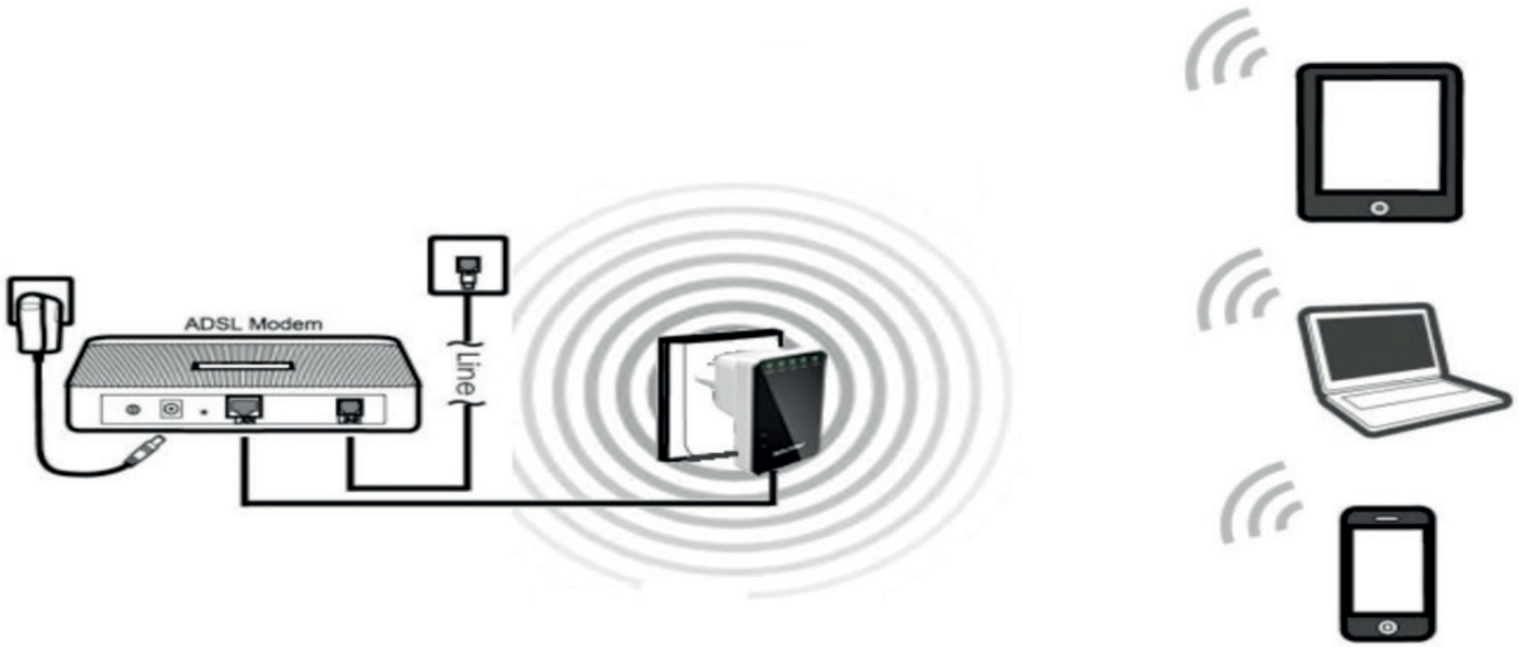
» 1 x Wireless Router/ Repeater RW 100

» 1 x Quick Installation Guide

» 1 x RJ-45 Networking Cable

GETTING STARTED

Setting up a Wireless Infrastructure Network



For a typical wireless setup at home (as shown above), please do the following:

1. You will need broadband Internet access (a ADSL, Cable Modem line into your home or office).

2. Consult with your ADSL or Cable Modem provider for proper installation of the modem.

3. Connect the ADSL or Cable modem to the Wireless N Mini Router. Plug the power plug of the Router in electrical wall socket.

4. Adding computers to the Wireless N Mini Router.

IMPORTANT NOTE

You can reset your WiFi Router to default setting by press and hold the 'RESET' button inside the tiny hole for 8 ~10 seconds.
You can use this solution if you forget your password.

HOW CONNECT TO WLAN MINI ROUTER/REPEATER RW100

You can configure the Wireless-N Mini Router by connecting it with your computer/laptop with enclosed RJ45 cable or wirelessly.

A1. Plug the Wlan Router/ Repeater RW100 to a wall socket.

A2. Click on the network icon (for wireless) or (for wired connection) on the right bottom of your desktop. You will find the signal from the WLAN Mini Router/Repeater RW 100. Click on '**Connect**' then wait for a few seconds.

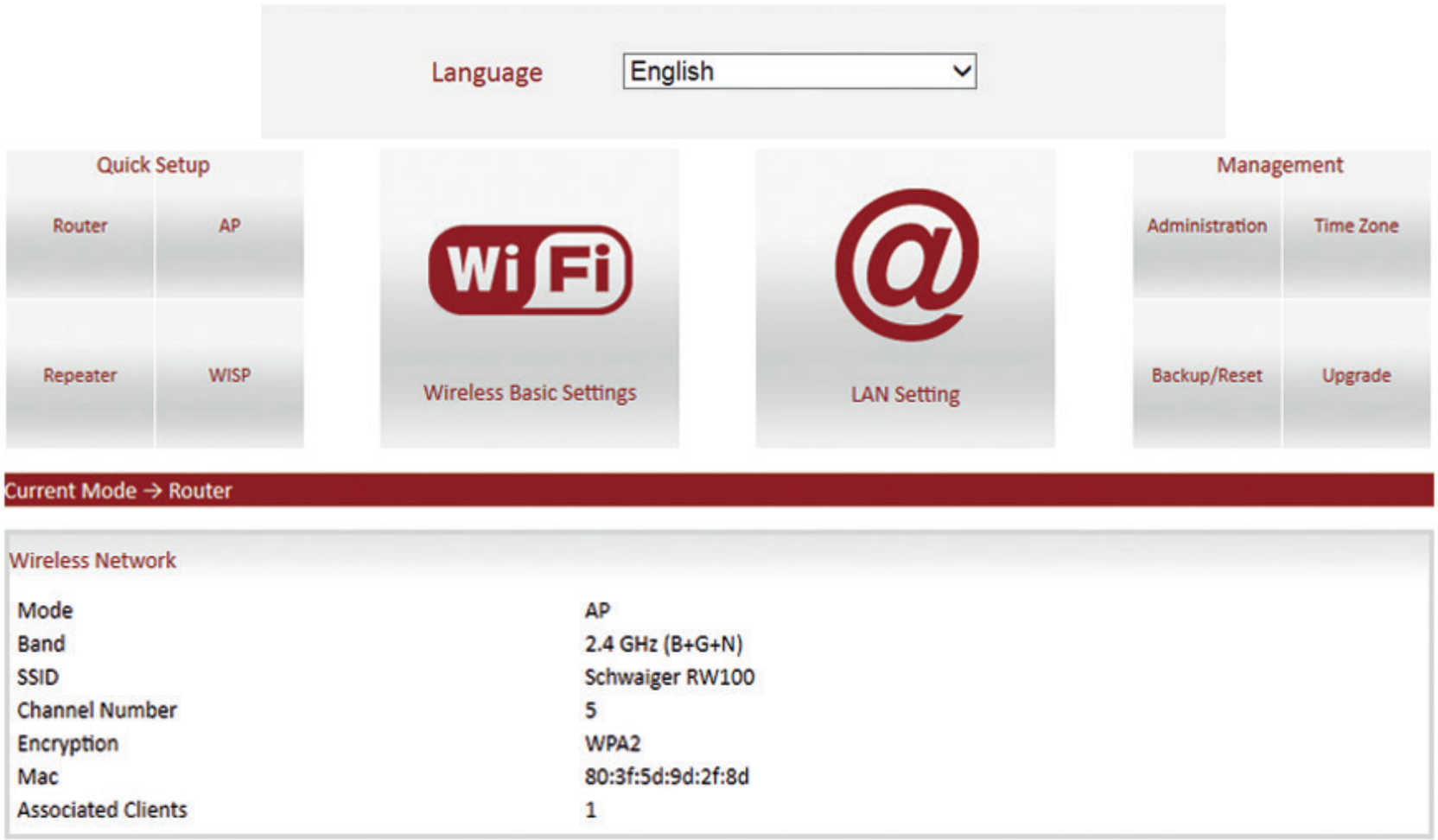
A3. Open web browser and type **http://192.168.10.1** in the browser's address box. This number is the default IP address for this device.

NOTE

Please check whether the Wireless-N Mini Router accord with factory default settings once you can't download ***http://192.168.10.1***
If you are still not sure what reasons, you can reset the Wireless-N Mini Router, just need to press the ***'Reset'*** *button for* ***10 seconds****,*

then try again.

A4. The login screen below will appear. Enter the "**User Name**" and "**Password**" then click "**OK**" to login. The default User name is "admin" and Password is "**admin**".


Language
English
Quick Setup
Router
AP
Repeater
WISP
Wireless Basic Settings
LAN Setting
Management
Administration
Time Zone
Backup/Reset
Upgrade
Current Mode → Router
Wireless Network
Mode AP
Band 2.4 GHz (B+G+N)
SSID Schwaiger RW100
Channel Number 5
Encryption WPA2
Mac 80:3f:5d:9d:2f:8d
Associated Clients 1

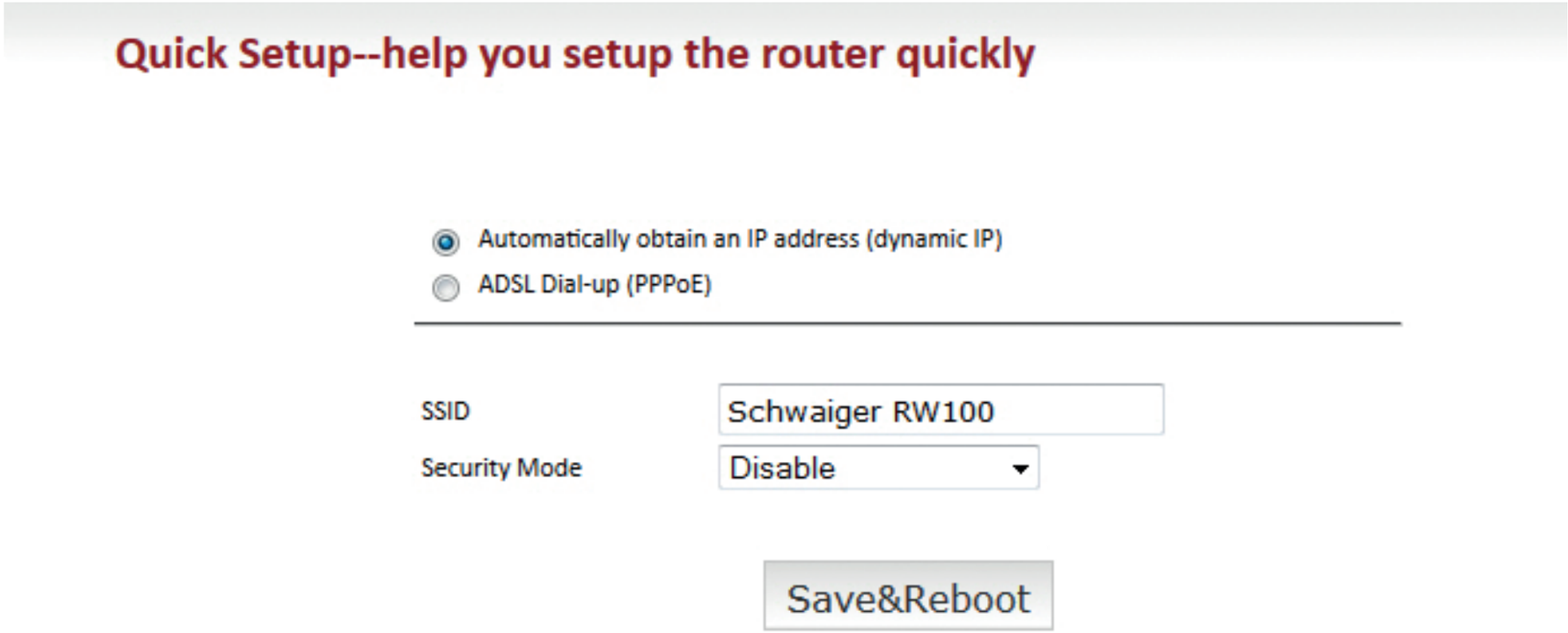
CONFIGURING VIA WEB BROWSER

After you successfully login, you can click the Wizard's menu to quickly configure your Router.

Choose the Operation Mode you need, and then click **it**.

Mode	Description
Router	Standard Wireless Router Mode: This router connect to Internet by WAN port, and then other terminal devices can connect to this router by wireless connection or connect to this router's LAN port by wired
AP	Traditional wired router realize wireless function: This router can connect to uplink router's LAN port by wired connection, user terminal can connect to this router by wireless connection
Repeater	Extend wireless signal comprehen-sively: This router can connect to uplink wireless router by wireless connection, user terminal can connect to this router by wired or wireless connection
WISP	Wireless used as WAN port: This router can connect to uplink wireless router by wireless connection, at the same time,it can extend wireless signal for other devices' connection

Router Mode



Choose your WAN Connection Type.

If **Dynamic IP** is selected, the Router gets the IP address automatically from the DHCP server or the ISP. No configuration should be set and you can go on with the wireless configuration.

If **ADSL Dial-up (PPPoE)** is selected, please enter the **User Name** and **Password** from your ISP, These fields are case-sensitive.

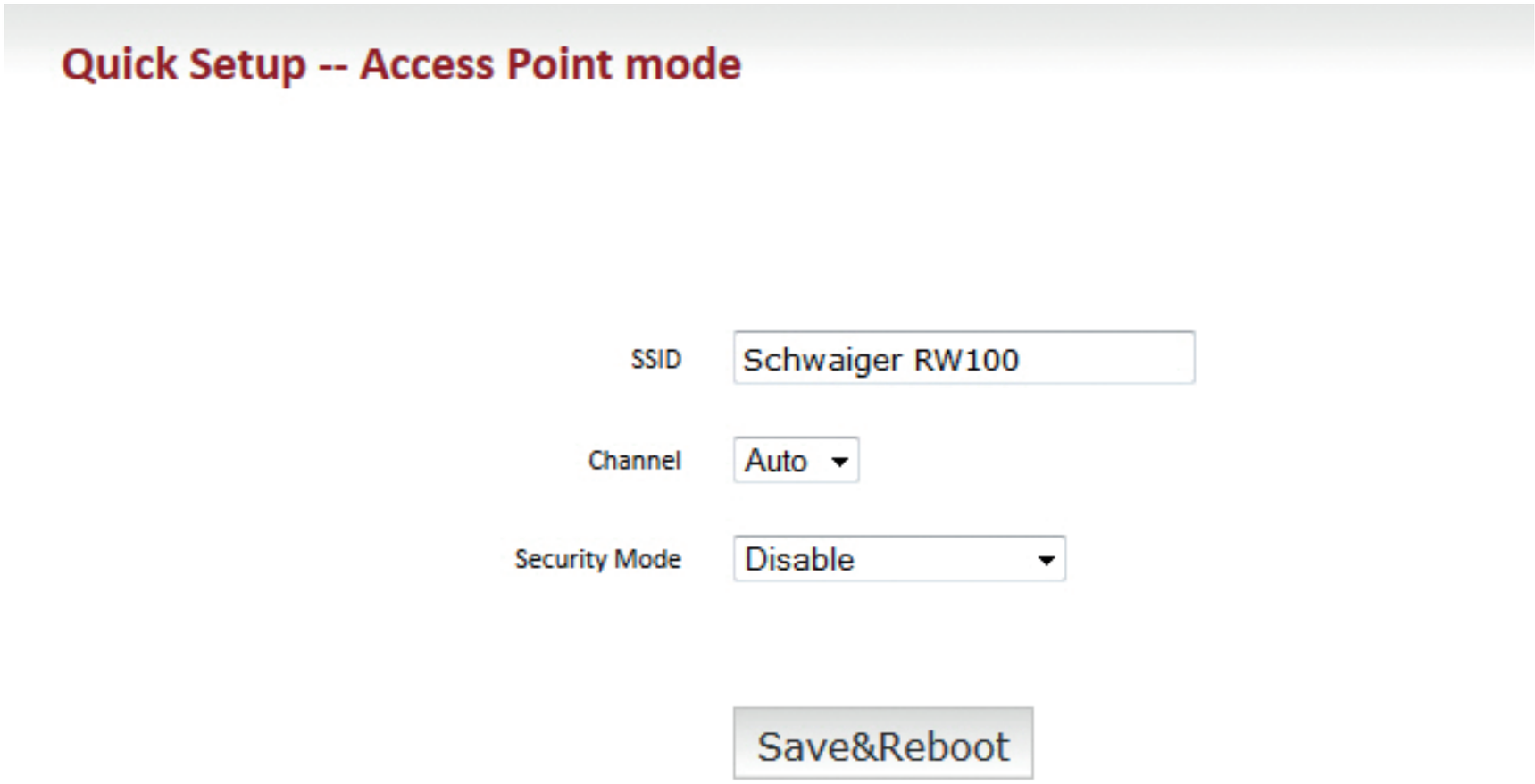
Set the wireless parameter. It’s recommended that you rename an **SSID,** choose a **Security Mode** and enter a **Key**.

SSID	the “SSID” of your wireless network
Channel	Auto (recommend)
Security type	Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2, WPA/WPA2 encryption methods.
Security key	the “Password” of your wireless network.

Click ‘**Save&Reboot**’ button, It will restart.

Wait for a few seconds your Wi-Fi Router is ready for use.

AP Mode


Quick Setup -- Access Point mode
SSID
Schwaiger RW100
Channel
Auto
Security Mode
Disable
Save&Reboot

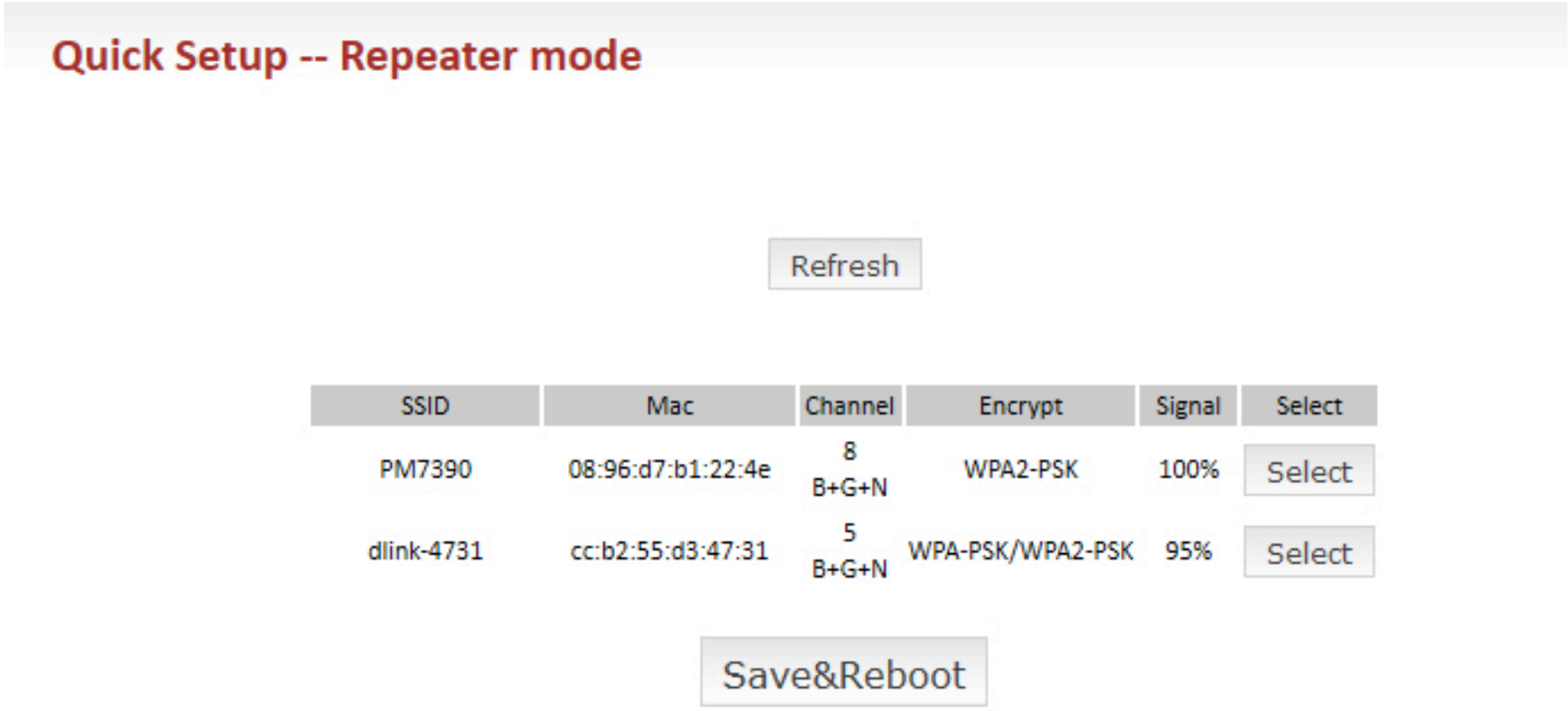
Set the wireless parameter. It’s recommended that you rename an **SSID**, choose a **Security Mode** and enter a **Key**.

SSID	the “SSID” of your wireless network
Channel	Auto (recommend)
Security type	Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2, WPA/WPA2 encryption methods.
Security key	the “Password” of your wireless network.

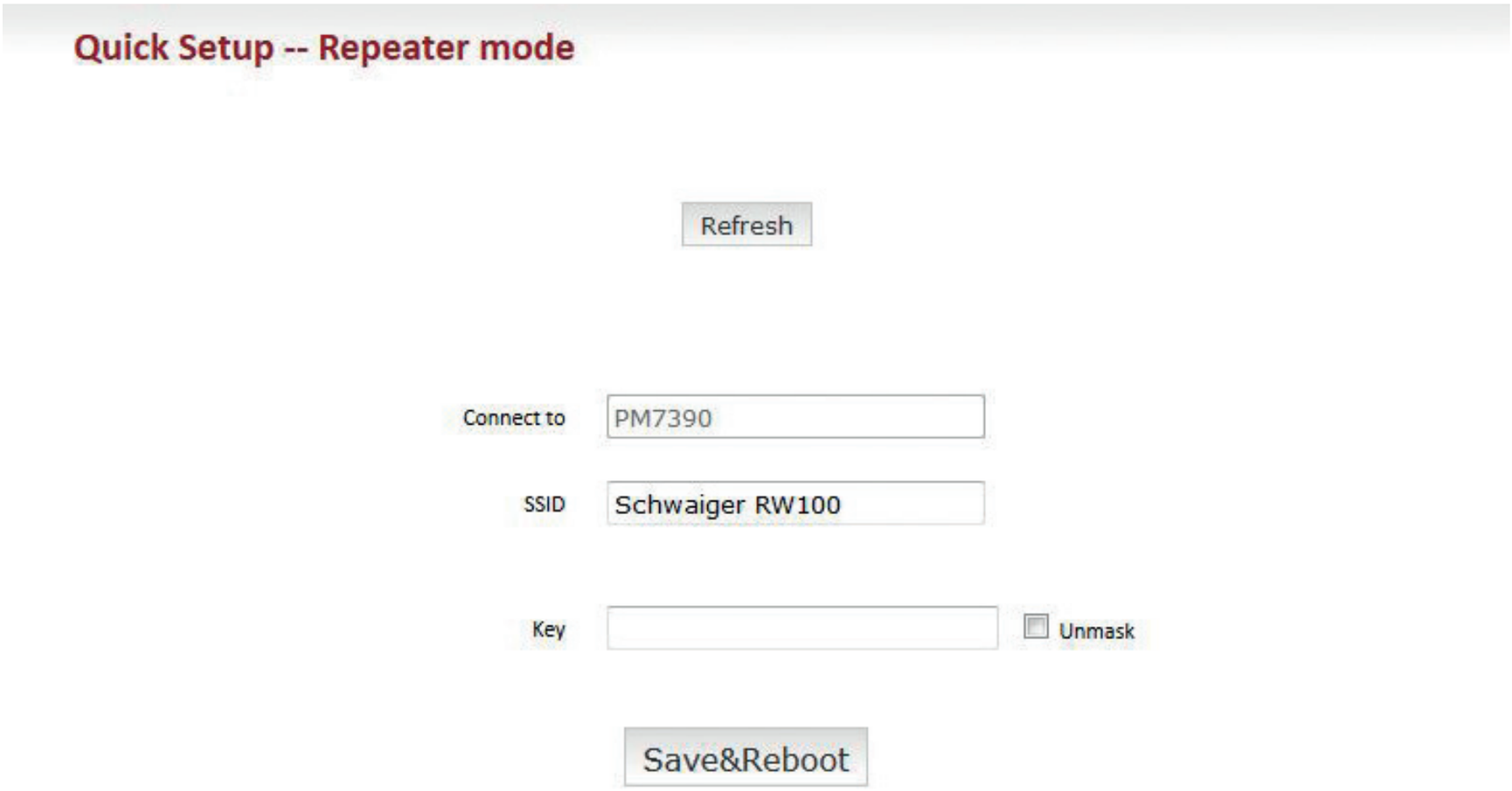
Click ‘**Save&Reboot**’ button, It will restart.

Wait for a few seconds your Wi-Fi Router is ready for use.

Repeater Mode



Select the **SSID** of the target network and click **Select**.



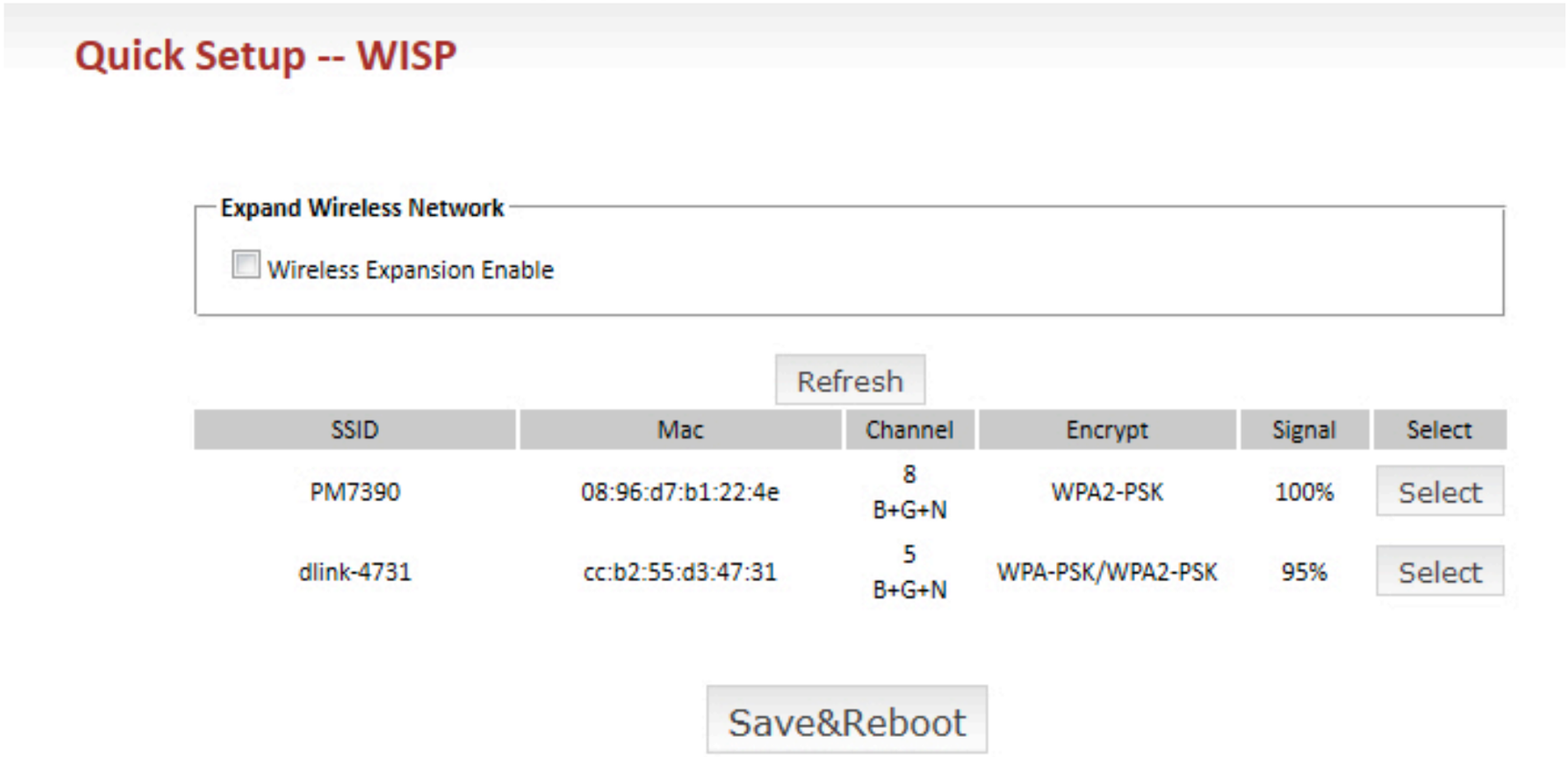
The target network's SSID will be automatically filled into the wireless setting figure. Then enter the Password. Make sure that you use the same password for the network's SSID as the original Network you wants to expand your WLAN signal performance.

Click '**Save&Reboot**' button, It will restart.

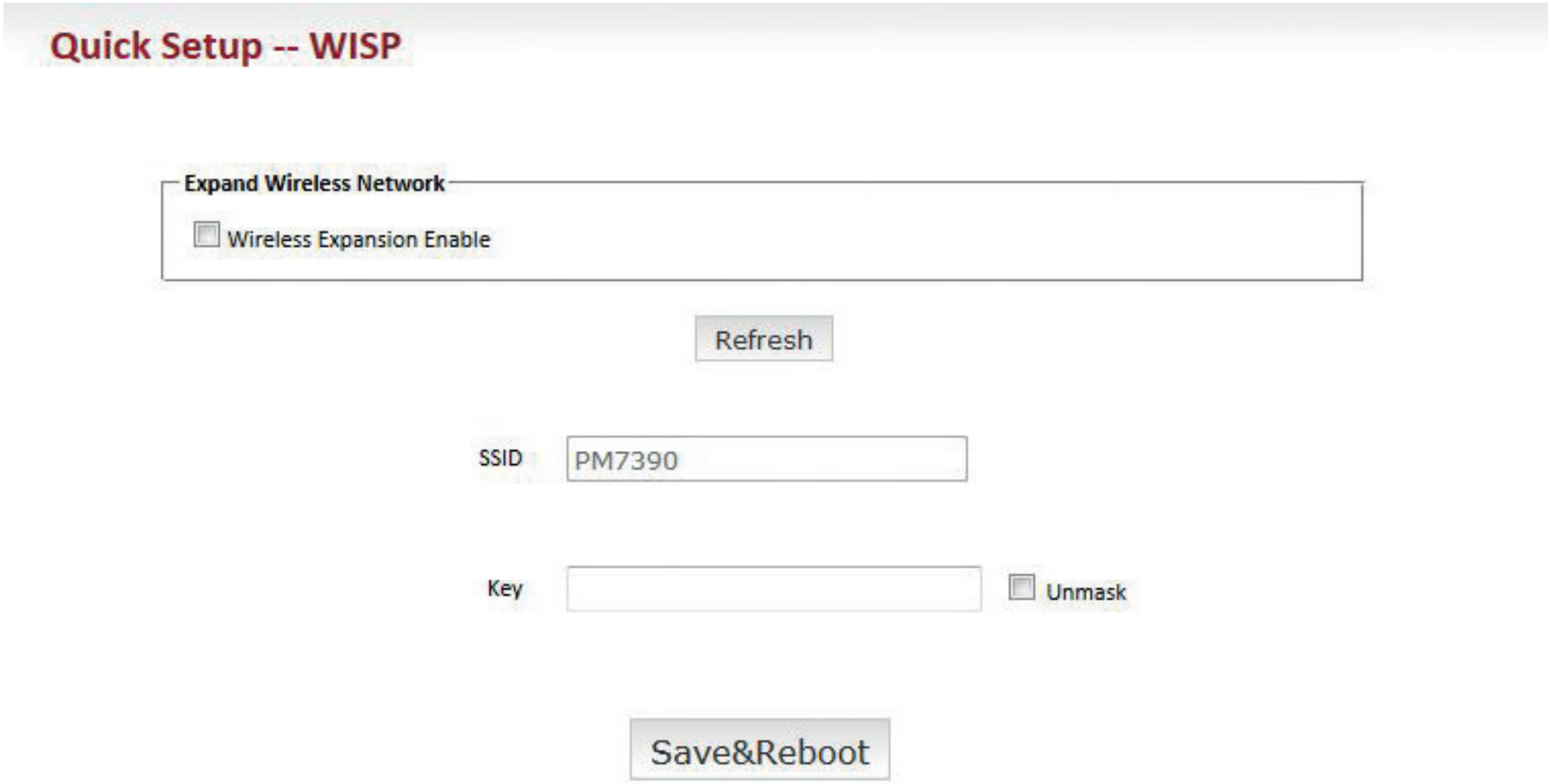
Wait for a few seconds your Wi-Fi Router is ready for use.

WISP Mode

In this mode, all Ethernet ports are bridged together and the wireless client will connect to ISP access point.



Select the **SSID** of the target network and click **Select**.



The target network's SSID will be automatically filled into the wireless setting figure. Then enter the Password.

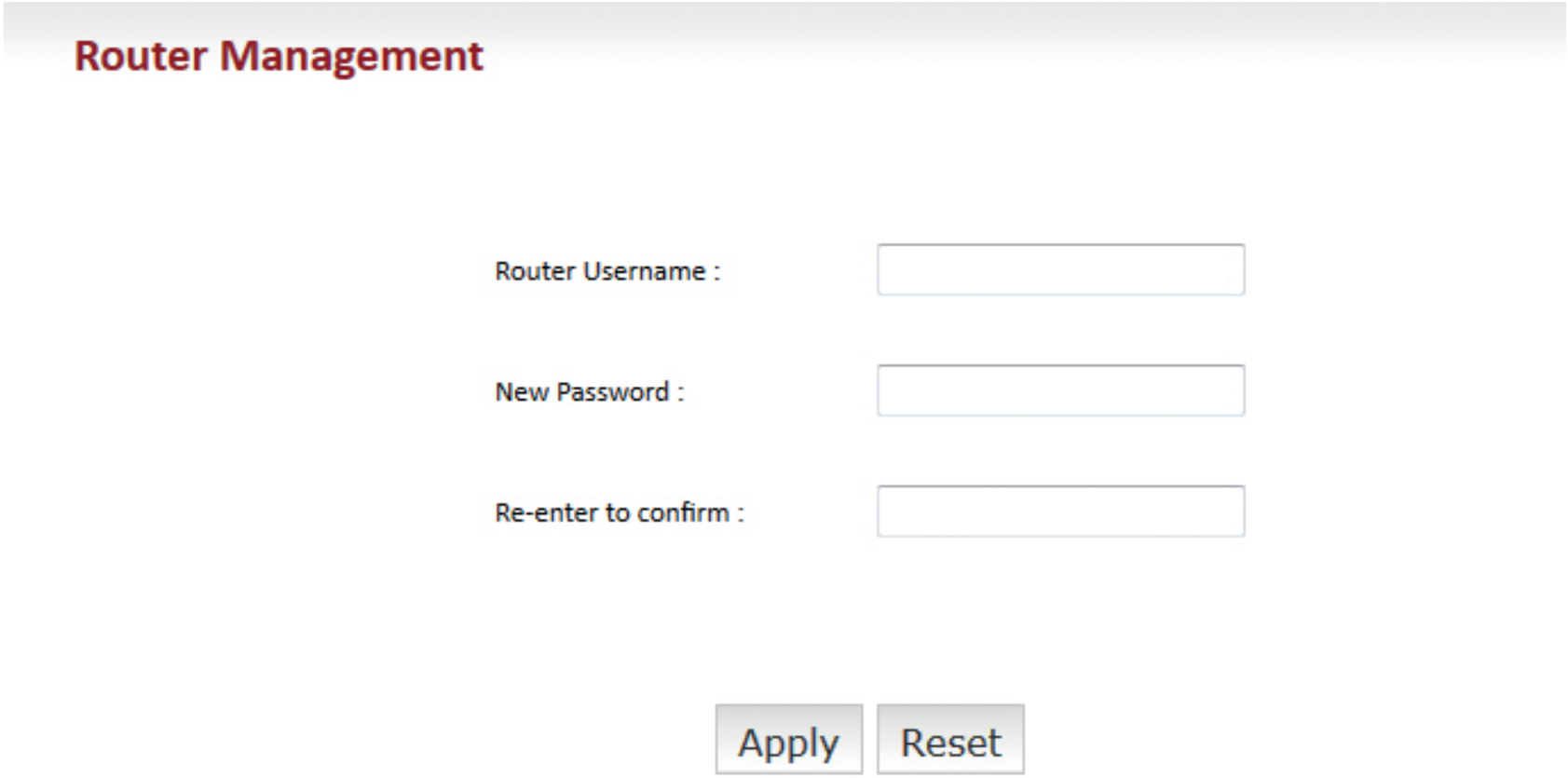
Click '**Save&Reboot**' button, It will restart.

Wait for a few seconds your Wi-Fi Router is ready for use.

CHANGE MANAGEMENT PASSWORD

Default password of Wireless-N Mini Router is "**admin**", and it's displayed on the login prompt when accessed from web browser. There's a security risk if you don't change the default password, since everyone can see it. This is very important when you have wireless function enabled.

To change password, please follow the following instructions: Please click '**Administrator**' menu on the web management interface, the following message will be displayed on your web browser:



If you want to change password, fill in the **Username** and **Password**.

Click '**Apply**' button, The WiFi Repeater will log off.

FIRMWARE UPGRADE

The system software used by this router is called as ‘firmware’, just like any applications on your computer, when you replace the old application with a new one, your computer will be equipped with new function. You can also use this firmware upgrade function to add new functions to your router, even fix the bugs of this router.

The upper right corners please click ‘**Firmware**’, and then the following message will be displayed on your web browser:

Click ‘**Browse**’ button first; you’ll be prompted to provide the filename of firmware upgrade file. Please download the latest firmware file from our website, and use it to upgrade your router.

After a firmware upgrade file is selected, click ‘**Upgrade**‘ button, and the router will start firmware upgrade procedure automatically. The procedure may take several minutes, please be patient.

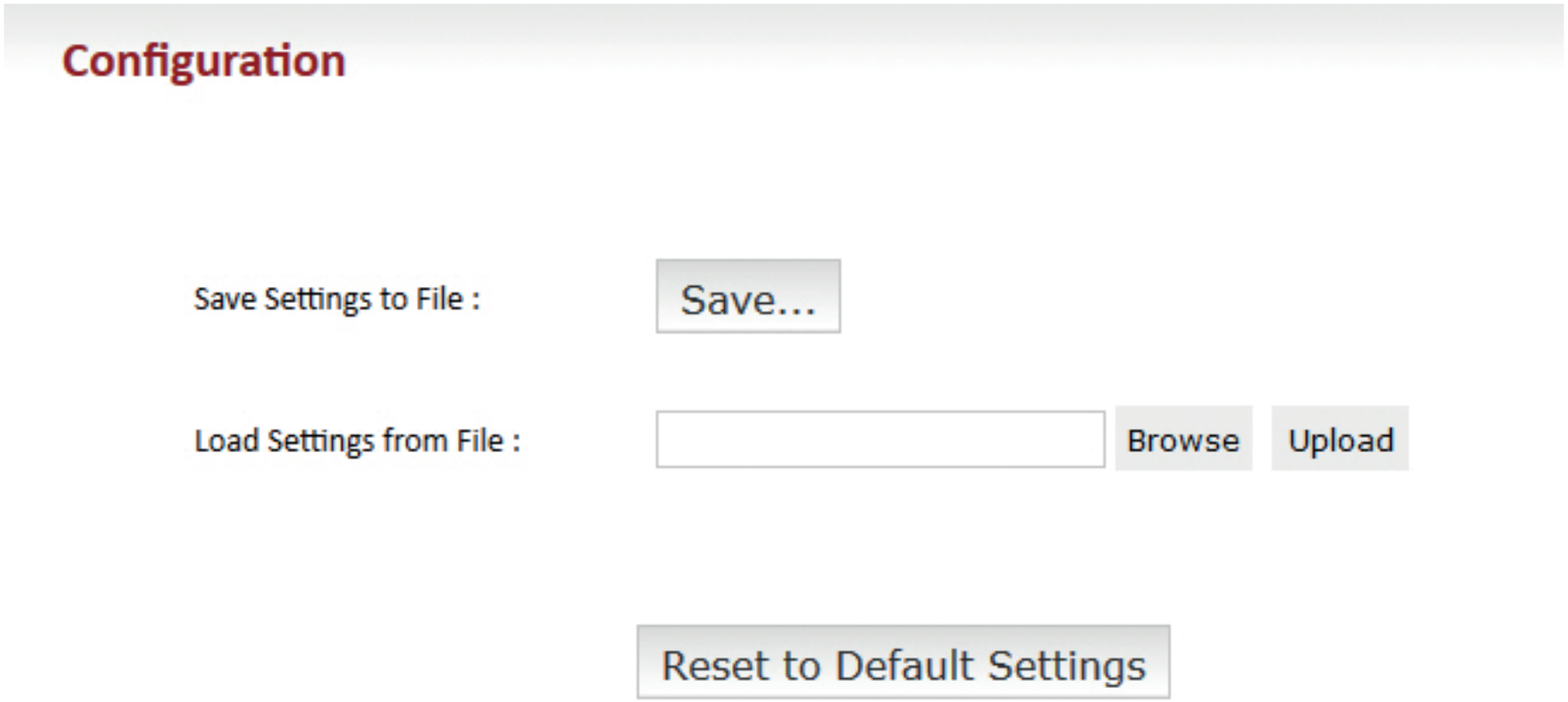
NOTE

Never interrupt the upgrade procedure by closing the web browser or physically disconnect your computer from router. If the firmware you uploaded is corrupt, the firmware upgrade will fail, and you may have to return this router to the dealer of purchase to ask for help. (Warranty voids if you interrupted the upgrade procedure).

FACTORY DEFAULT AND SETTINGS BACKUP, RESTORE

You can backup all Setting of this router to a file, so you can make several copied of router configuration for security reason.

To backup or restore router setting, please follow the following instructions: Please click '**Save/Reload setting**' located at the web management interface, then the following message will be displayed on your web browser:



Save Settings to File	Press '**Save**…' button, you can please save it as another filename for different versions, and keep it in a safe place.
Load Settings	Press '**Browse**…' to pick a previously-saved configuration file from your computer, and then click 'Upload…'. After the configuration is uploaded, the router's configuration will be replaced by the file you just uploaded.
Reset Settings	Click this '**Reset to Default Settings**' button to remove all settings

HOW TO CONNECT YOUR COMPUTER/LAPTOP WITH THE WIRELESS MINI ROUTER/REPEATER RW 100

Adding a Wireless computers to the RW 100

1. Turn on the computer.

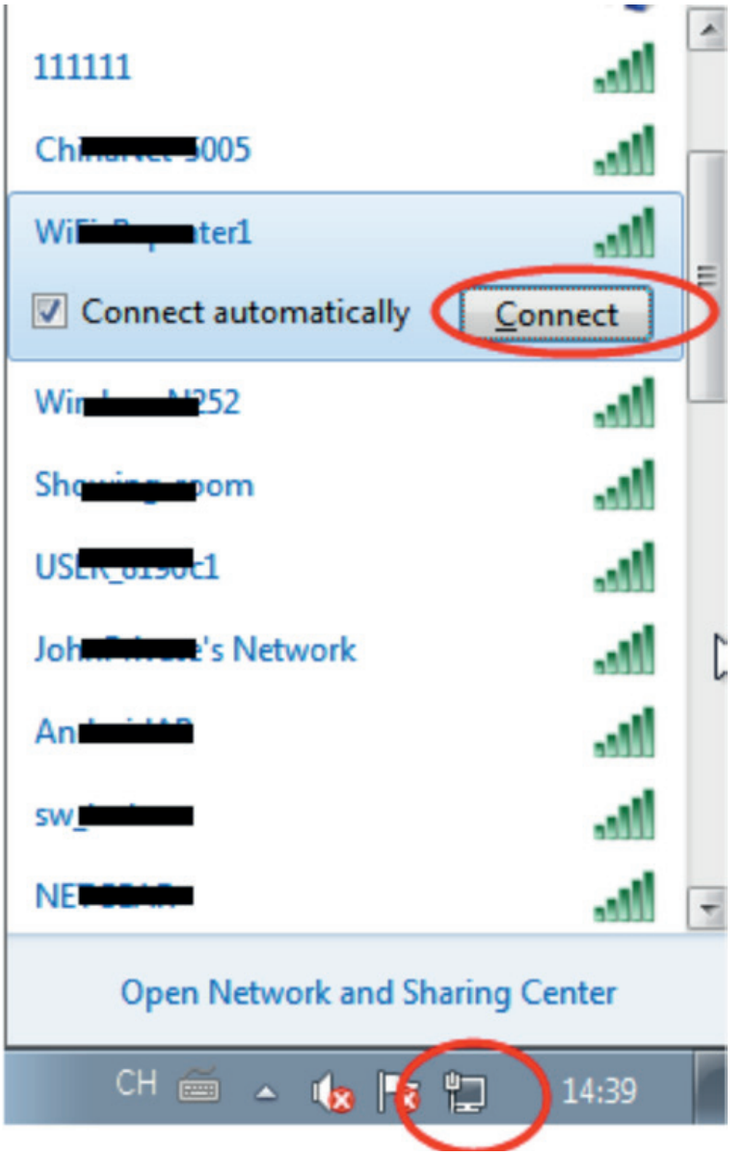
2. Open Connect to a Network by right-clicking the network icon (for wireless connection) or (for wired connection) in the notification area.

3. Choose the wireless network from the list that appears, and then click **Connect**.

4. Type the network security key or passphrase if you are asked to do so, and then click **OK**. You'll see a confirmation message when you are connected to the network.

5. To confirm that you added the computer, do the following:

   Open Network by clicking the **Start** button , and then clicking **Control Panel**. In the search box, type **network**, and then, under Network and Sharing Center, click **View network computers and devices**. You should see icons (wireless connection) for the computer you added and for the other computers and devices that are part of the network.



NOTE

If you don't see icons *(wireless connection) in the Network folder, then network discovery and file sharing might be turned off.*

Adding a Wireless computers to the Wireless Mini Router/ Repeater RW 100 with WPS Button

1. Turn on the computer.

2. Press the **WPS** button of the Wireless Mini Router/Repeater RW 100 directly for **2 – 3 seconds**.

3. Press the **WPS** button of the Wireless Adapter directly for **2 - 3 seconds**. Click **Finish** to complete the WPS configuration. (Please check your Wireless adapter Manual with WPS configuration.)

4. You should see icons (wireless connection) for the computer you added and for the other computers and devices that are part of the network.

Adding a wired (Ethernet) computer to the Wireless-N Mini Router

1. Plug the Wireless Mini Router/Repeater RW 100 to a wall socket. Connect your computer /laptop with the Wireless Mini Router/Repeater RW 100 with enclosed RJ45 Cable.

2. To confirm that you added the computer, do the following: Open Network by clicking the **Start** button , and then clicking **Control Panel**. In the search box, type **network**, and then, under Network and Sharing Center, click **View network computers and devices**. You should see icons for the computer you added and for the other computers and devices that are part of the network.

For more information:

http://windows.microsoft.com/en-US/windows7/Add-a-device-or-computer-to-a-network

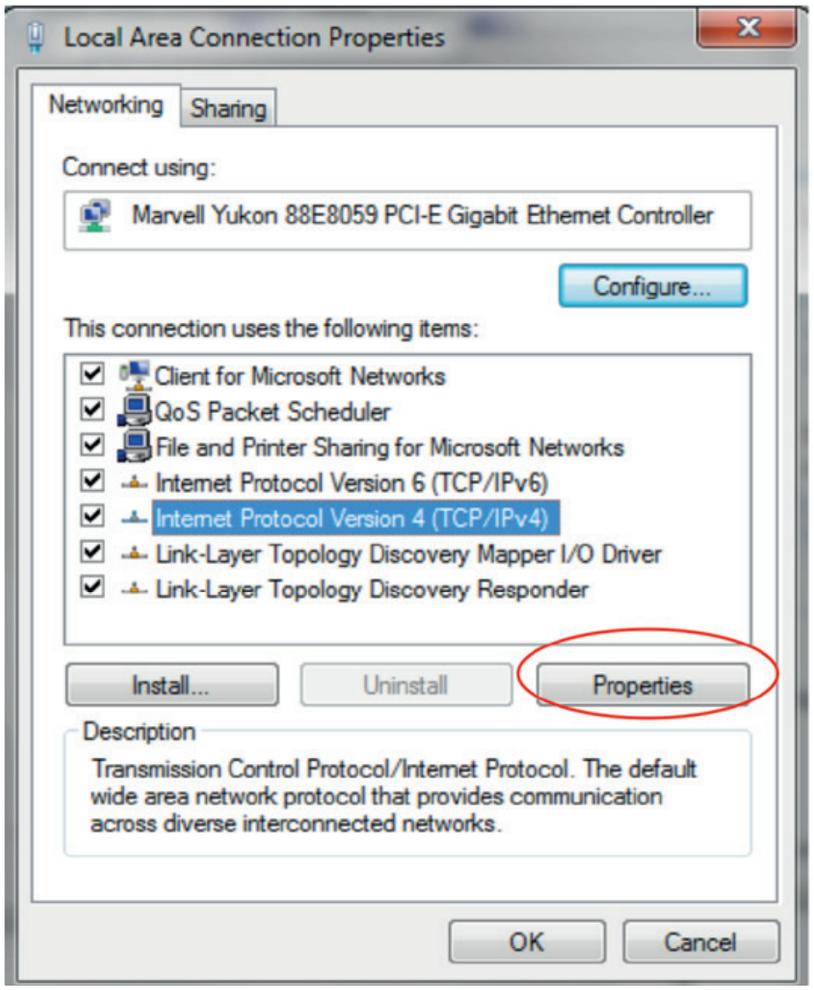
http://windows.microsoft.com/en-US/windows7/Setting-up-a-wireless-network

http://windows.microsoft.com/en-US/windows-vista/Setting-up-a-wireless-network

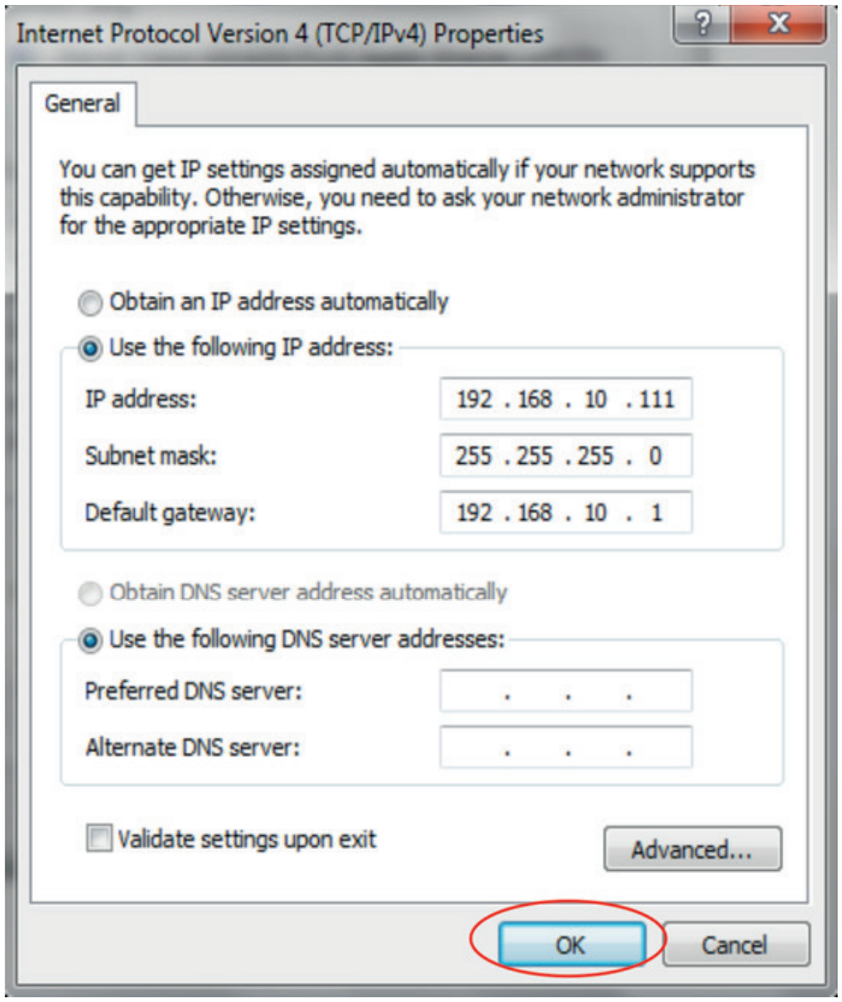
HOW TO CONFIGURE YOUR COMPUTER/LAPTOP WITH THE NETWORK IP ADDRESS

1. Turn on the computer.

2. Click the "**Start**" button (it should be located at the lower-left corner of your screen), then click "**Control Panel**". Click "**View Network Status and Tasks**", and then click "**Manage Network Connections**". Right-click "**Local Area Network**", then select "**Properties**". When the "**Local Area Connection Properties**" window appears, select "**Internet Protocol Version 4 (TCP/IPv4)**" and then click "**Properties**".



3. Setting IP address manually: Type IP address is **192.168.10.x** (x is from 2 to 252), and Subnet mask is **255.255.255.0**. Type the Router's LAN IP address (the default IP is **192.168.10.253**) into the Default gateway field.


Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 10 . 111
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
192 . 168 . 10 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

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